

Chemical reaction scheme showing the synthesis of a poly(amide-ether) polymer. The reaction starts with an amine ($R-NH_2$) reacting with maleic anhydride to form an amic acid intermediate. This intermediate then reacts with another maleic anhydride molecule under heat to form a dimer. The dimer then reacts with a third maleic anhydride molecule to form a trimer, which is the repeating unit of the polymer. The polymer structure is shown as a chain of repeating units with long alkyl side chains.

FIG. 1A

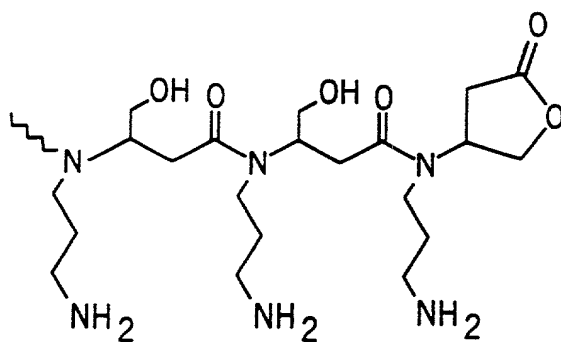
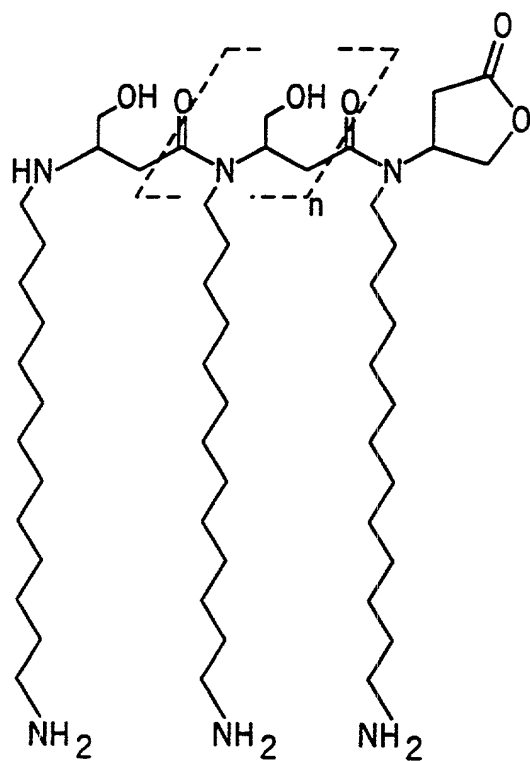


FIG. 1B

